

NIAGARA FALLS  
NY

UMETCO MINERALS PROJECT DATA ROOM

CONFIDENTIAL, PROPERTY OF UMETCO MINERALS CORPORATION

UNIT : IA UMETCO IN THE UNITED STATES

SECTION NUMBER  
AND TITLE : 7.8 Metals/Flux Operations, Niagara Falls, NY  
7.8.1 Waste Disposal Summary  
7.8.2 List of Licenses and Permits  
7.8.3 Licenses and Permits

DATE PREPARED :

UCCNHT0001819

UMETCO MINERALS PROJECT DATA ROOM

CONFIDENTIAL, PROPERTY OF UMETCO MINERALS CORPORATION

UNIT :

SECTION NUMBER  
AND TITLE : 7.8.1 Waste Disposal Summary

DATE PREPARED :

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UCCNHT0001820

UMETCO MINERALS CORPORATION  
METALS/FLUX OPERATIONS  
NIAGARA FALLS, NY  
June 1, 1984

WASTE DISPOSAL SUMMARY

I. Off Site Disposal - Solids

Office refuse and production floor trash (non-hazardous - paper, wood, containers, etc.)

Metals - 160 yards<sup>3</sup>, not compacted,/operational month

Metals - 150 yards<sup>3</sup>, compacted,/operational month

Linde - 100 yards<sup>3</sup>, not compacted,/operational month

Waste water treatment sludge - non-hazardous, refer to attached flux constituent matrix.

Linde - 400 lbs./operational hour

Miscellaneous off grade MnAl, CrAl, FeAl

Metals - volumes vary with production levels and quality levels.

Vanadium furnace slag

Metals - Approx. 2,000,000 lbs./year - temporary storage on site.  
(Potential sale.)

Note: The above solids are received by a local contractor through various divisions - CECOS International, Niagara Sanitation or Browning Ferris Incorporated. The landfill is located at 56th and Pine Streets, Niagara Falls, New York.

Scrap Iron

Metals and Linde - scrap metal sold to local vendor for eventual recycling - several tons/year.

II. On Site Disposal - Solids

The cross hatch in grid 3-B of the attached plot plan represents an accumulation of spent carbon paste furnace liners and off grade flux.

The cross hatch in grid 6, 5-B represents an accumulation of scrap flux and trash.

The cross hatch in grid 6-C, B represents an accumulation of furnace slag that will eventually be removed from the property. (Potential sale)

Approximately 200 gallons of water/day is discharged from the west side of Building #104, to a pond which overflows to the city sewer & POTW. This discharge is a result of flushing out the "zig-zag" blender. It is estimated that ten lbs. of bonded flux is carried in the 200 gallons plus some sodium silicate.

### III. Liquid Discharges

Discharge (Metals) to city sewer monitored discharges presently in compliance with city standards (per their SPDES Permit) for flow, COD and SS. Niagara Falls is presently modifying permits to include checks for SOC and priority pollutants. Indications thus far are that we will not be cited to correct any serious problem.

Future potential problem areas are;

- A. 99 Building Halides operation presently discharges  $VC14$  and  $VOCL3$  tank flush water to sewer and also scrubber backwash to city sewer attempting to neutralize with caustic and dilute with water.
- B. W operations discharges from bubbler tanks to #1 monitoring station. EPA's present efforts to formulate guidelines for W effluent (non-ferrous forming survey, etc..) may impact on our operations in future.

The discharge from Linde's wastewater treatment plant is routed directly to the Niagara River. This flow represents 130,000 gallons per operational day and is joined by non-contact cooling water for a total daily flow of 2,000,000 gallons. This outfall is subject to the restraints of a SPDES permit. To date, we have been in strict compliance with the chemical and constituent tolerances in the permit.

### IV. Air Discharges

A summary of all air discharge points is offered on the attached plot plan. With the exception of point #9001 (Linde) and Halides operations, all points are operating under a current permit and are in compliance. Naturally, mechanical breakdowns are experienced, but in all cases they are promptly remedied.

Presently, our primary concern is the plume discharged by the submerged arc flux furnace located in Building #98 - air emission point #9001 (see attached plot plan). We have designed and implemented five generations of pollution control hardware over the last six years at a cost of well in excess of \$1,000,000. We presently experience opacity excursions although we are generally in compliance. The probability of an excursion is greatest during the first eight hours of furnace startup and in the manufacture of flux grades 0091, 709-5 and 20. In response to these excursions, during April of 1984, the New York State DEC performed a series of stock samples with total particulate and fluorides as their areas of particular interest. It is anticipated that the results of this testing will not be available for several months. Similar tests, initiated by UCC, were performed in September of 1982.

Data collection and analysis are currently being performed to eliminate the opacity problems. Surfactants are being investigated to supplement particulate precipitation along with mechanical revisions to the scrubbing towers.

Halides operations pose potential future problems for emission to the atmosphere. To date, no permit for this area has been obtained.

Presently, we are holding in storage several hundred sample cans that have a volume of approx. 500 in.<sup>3</sup>. The contents of these cans represent a cross section of the products manufactured by the Metals Division for the last 50 years. The disposal of this collection may require considerable investigation and a search of the appropriate state and federal regulations.

So that you may better understand the chemistry of fused flux manufacture, the attached schedule indicating the fused fluxes manufactured and their constituents is provided.

Please advise if further detail or clarification is required.



W. E. Esch



E. A. Casciani

WEE:EAC/sjd

ATTACH.

UCCNHT0001823

## B. MATERIALS - DESCRIPTION

I. Element	Basic Grades	Acid Grades
	20, 80, 124, 709-5, 0091 %	50, 55, 60, 85 85I %
Water	65.3	59.6
Fluoride	3.2	8.6
Calcium	6.2	17.7
Magnesium	11.3	1.2
Iron	1.1	1.7
Aluminum	4.4	1.8
Lead	0.1	1.0
Zinc	0.1	0.3
Manganese	7.8	7.3
Other	0.5	0.8
	100.0%	100.0%

<u>Item</u>	<u>Basic</u>	<u>Acid</u>
Physical state	Semi Solid	Semi Solid
Specific Gravity	1.3	1.3
Viscosity	Medium	Medium
Flash Point	None	None
pH	9	7

100 CAL TANK - HQ

100 CAL TANK - HQ

100 CAL TANK - HQ

100 CAL TANK - HQ

100 CAL TANK - HQ

100 CAL TANK - HQ

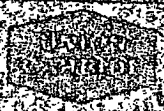
100 CAL TANK - HQ

THIS PRINT  
ISSUED

JUN 6 1984

TECHNOLOGY DEPT.

This drawing and/or technical information is the property of the Union Carbide Corporation. It is loaned to you for your use only and is not to be reproduced, copied, or otherwise used in any way without the written permission of the Union Carbide Corporation. It is to be kept confidential and not to be disclosed to any third party. It is to be kept in a secure place and not to be lost or damaged. It is to be returned to the Union Carbide Corporation when it is no longer needed. It is to be kept for a period of one year after the date of its return. It is to be kept in a secure place and not to be lost or damaged. It is to be returned to the Union Carbide Corporation when it is no longer needed. It is to be kept for a period of one year after the date of its return.



UNION CARBIDE CORPORATION  
METALS DIVISION

WORK: NIAGARA

GENERAL PLANS

BURD. NO.

GENERAL PLAN OF  
NIAGARA PLANT

UNION CARBIDE CORPORATION  
NIAGARA PLANT

DATE: 5/1/80

BY: [Signature]

100

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100

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6520120

UMETCO MINERALS PROJECT DATA ROOM

CONFIDENTIAL, PROPERTY OF UMETCO MINERALS CORPORATION

UNIT :

SECTION NUMBER  
AND TITLE : 7.8.2 List of Licenses and Permits

DATE PREPARED :

UCCNHT0001826



FACILITY Niagara FallsDate: 2/84

Address Union Carbide Corp.  
137 47th St. (Box 66)  
Niagara Falls, NY 14302

Name On Permit	Title	Permit Number	Agency	Permit Term/ Expiration	Transferable/Comments
UCC Metals Niagara Falls	Cert. to Operate (Air) 15 permits	291100-0360- C 0001 WI C 0005A WI C-0005B WI C-00006 WI02 C-00006 WI03 C-00006 WI04 C-00006 WI05 C-00006 WI C-0008A WI A-0103A I C-00701 WI A-00702 I C-00703 WI A-00704 I A-00704 I	NY-Dept. Environ- mental Conserva- tion - Div of Air	8/1/88 8/1/88 8/1/88 8/1/88 8/1/88 8/1/88 8/1/88 8/1/88 8/1/87 8/1/88 8/1/87 8/1/88 8/1/87 8/1/87	No information on certificates
UCC Metals	Sewer Permit (POTW)	NF #8	City of Niagara Falls	Contract to be negotiated 2nd Qtr 1984	No information
UCC Linde	SPDES State pollutant Discharge elimi- nation system discharge permit	NY-000 0060	NY-Dept. Environ- mental Conservation	8/1/86	Metals to operate Plant for Linde Div.
UCC Mining & Metals Niagara	Radioactive Materials License	950-0139	NY Dept.-Labor	Valid until Termination	License transferred to Cecos Inter- national when property sold 1/25/83

UCCNHT0001827

Address Union Carbide Corp.  
137 47th St. (Box 66)  
Niagara Falls, NY 14302

Name On Permit	Title	Permit Number	Agency	Permit Term/ Expiration	Transferable/Comments
UCC Metals	Cert. of Regis. Hospital X-Ray	31009436	NY Dept of Health	4/1/85	Will not renew-offered to Investment Recovery as surplus
UCC	Registration of Sources of Radiation	--	NY Dept of Labor	None	Received 7/2/65 - No information X-Ray Fluoroscope-Standby unit
UCC Linde Flux	Regis. of Source of Radiation	R-1995 Registered 1/31/72	NY Dept. of Labor	None	To transfer - Person in charge (Condition #9) only from Linde to Metals
UCC	Solid Waste Disposal for Hazardous Wastes	NYD 000692228	No	Additional	Information

UCCNHT0001828

FACILITY UCC-Linde Div. (Flux Plant)

Date: 2/84

Address Union Carbide Corp.  
Simmions Ave, (Box 747)  
Niagara Falls, NY 14302

Name On Permit	Title	Permit Number	Agency	Permit Term/ Expiration	Transferable/Comments
UCC Linde	Cert. to Operate (Air) (19 permits)	IZ91100-0359	NY-Dept of Environ Conservation - Air		No Transferable information Metals to operate Plant for Linde Div.
		01203 WI		8/1/88	
		01203 WI01		8/1/88	
		01203 WI02		8/1/88	
		01203 WI03		8/1/88	
		01203 WI04		8/1/88	
		01201 WI		8/1/88	
		01202 WI		8/1/88	
		01204 WI		8/1/88	
		01301 WI		8/1/88	
		01302 WI		8/1/88	
		0956 A+B WI		8/1/88	
		01001 WI		8/1/88	
		00955 WI		8/1/86	
		09062-68 WI	(7 permits)	8/1/88	
		09001 WU		8/1/84	
		09001 WI02	No information	8/1/84	
		0009 D			

UCCNHT0001829

UCC Metals - Niagara Falls

PERMITS & LICENSES BETWEEN UCC METALS & GOV'T AGENCIES

- 1.) FCC License #KED762                      Manufacturers Radio Service License  
    - mobile license KJ7349
- 2.) NYS DEC Emission Permits - Certificates to Operate Air  
    Contamination Sources  

- #2I291100-0360-00001	Master Alloy
#2I291100-0360-0005A	UCAR W Bubbler
#2I291100-0360-0005B	UCAR W Sizing
#2I291100-0360-00006	C6F Furnaces
#2I291100-0360-0008A	Bldg. 32 Packing
#2I291100-0360-0103A	VCWC
#2I291100-0360-00701	Old UCAR Oven
#2I291100-0360-00702	Old UCAR Compactor
#2I291100-0360-00703	Old UCAR Blending
#2I291100-0360-00704	New UCAR Oven
#2I291100-0360-00705	New UCAR Blend. & Compact.
- 3 ) Division Sewer Permit - City of Niagara Falls Permit NF #8
- 4.) Industrial Wastewater Contract w/ City of Niagara Falls - 3/1/71
- 5.) US EPA Outfall discharge permit - NPDES Permit No NY00000060 -  
    held by Linde Flux with addendum to Hooker

UCCNHT0001830

UMETCO MINERALS PROJECT DATA ROOM

CONFIDENTIAL, PROPERTY OF UMETCO MINERALS CORPORATION

UNIT :

SECTION NUMBER  
AND TITLE : 7.8.3 Licenses and Permits

DATE PREPARED :

UCCNHT0001831

R.G. / RMM / ~~RS~~ / File  
Project  
0060

UNION CARBIDE CORPORATION OLD RIDGEBURY ROAD, DANBURY, CT 06817  
LAW DEPARTMENT E3-287

March 2, 1984

MAR - 7 1984

Mr. Steven J. Doleski  
Regional Permit Administrator  
New York State Department of  
Environmental Conservation  
Region 9  
600 Delaware Avenue  
Buffalo, New York 14202-1073

SEE NOTE ON  
Pg 3

Attention: Mr. Michael McMurray

Re: SPDES Permit No. NY-000 0060

Dear Mr. McMurray:

This letter confirms our telephone conversation of March 1, 1984 with Mr. Doleski. The above-referenced permit was originally issued to Union Carbide Corporation - Linde Division, the owner and operator of the Linde Flux Plant, Simmons Avenue (Box 747), Niagara Falls, New York 14302. The permit was recently transferred to Union Carbide Corporation - Metals Division in response to a request from Mr. George Rees of the Linde Flux Plant to the Department of Environmental Conservation ("Department"). I understand that a second request, dated February 16, 1984, is now pending before the Department, to transfer the permit back to Union Carbide Corporation - Linde Division.

It is the intent of this letter to clarify the current ownership/operation status of the plant for the Department. Union Carbide Corporation has been and continues to be the owner of the Linde Flux Plant. The only recent change is that the Metals Division of Union Carbide Corporation has taken over operating responsibilities from the Linde Division of Union Carbide. Union Carbide intends to transfer to Union Metals Corporation ("UMET"), a wholly-owned subsidiary of Union Carbide, certain assets and liabilities of its Metals Division. One result is that UMET will become the operator of the Linde Flux Plant. Union Carbide Corporation will continue to be the owner.

As discussed on March 1, 1984, it is your preliminary determination that Union Carbide Corporation, as owner of the Linde Flux Plant, should be the permittee for purposes of the State Pollutant Discharge Elimination System (SPDES) permit program. If this preliminary

UCCNHT0001832

Mr. Steven J. Doleski  
March 2, 1984  
Page 2

determination is confirmed, I would appreciate your advising Mr. Rees in writing that the name of the permittee should properly be Union Carbide Corporation - Linde Division. Mr. Vic Gustavson, the Linde Flux Plant Manager, will then resume the responsibility for signing discharge monitoring reports and other reports required to be sent to the Department.

If you determine that the permit should be held by UMET, as operator of the Linde Flux plant, please advise me as soon as possible. In such an event, Union Carbide and UMET are prepared to request that the Department transfer the SPDES permit to UMET.

If you have any questions or need additional information, please do not hesitate to call me at 203 - 794-6233.

Thank you for your assistance.

Very truly yours,

*Carol L. Dudnick*

Carol L. Dudnick

CLD:mh

UCCNHT0001833

bcc: F. T. Temple  
G. Rees  
J. F. Frost \*

\* Jack: Under certain permit programs, only authorized representatives of the Corporation are authorized to sign reports, e.g., discharge monitoring reports under the SPDES program. The signatory policy issued by HS&EA will have to be reviewed and delegations made to appropriate persons (or positions) once permit transfers are approved. Carol



Received 1-20-84/ew

New York State Department of Environmental Conservation  
600 Delaware Ave., Buffalo, NY 14202-1073  
716/847-4551

Date: January 18, 1984

Mr. F. T. Temple, Plant Manager  
Union Carbide Corp, Metals Division  
P.O. Box 66  
Niagara Falls, N. Y. 14302

Re: Notice of Intent to Modify Pollutant  
Discharge Elimination System Permit  
No. NY- 000 0060  
DRA # 90-84-0054

Formerly: Linde Welding Flux Plant  
(C) Niagara Falls, Niagara County

Dear Mr Temple

This is to inform you that pursuant to Environmental Conservation Law, Article 17, Title 8 (McKinney's) and 6 NYCRR, Part 757, the New York State Department of Environmental Conservation has made a determination to modify your referenced Pollutant Discharge Elimination System Permit as

- ☐ shown on the enclosed revised Permit which supercedes the previous Permit.
- ☒ shown on the enclosed revised Permit pages which supercede (and/or supplement) previous Permit pages. The remainder of the Permit continues in full force and effect. *Page No. 1 of 5*
- ☐ follows:

This modification will become effective immediately unless you either submit, within ten days, a written statement giving reasons why the permit should not be so modified or petition for a hearing, and if no written objection is received by this office from the Regional Administrator of EPA. Any such petition for a hearing shall contain specific evidence to support your contention that a hearing is necessary in accordance with 6 NYCRR, Part 621.

Respectfully,

*Steven J. Doleski*

Steven J. Doleski  
Regional Permit Administrator

Enclosure

*MJM* cc: Reg. # 9 Div. of Water  
Albany PDES Administrative Section  
*Dr Baker, EPA*  
*Dr. Spear, EPA*  
*Niagara County Health Dept.*  
*Erie/Niagara Reg. Plan. Board*

UCCNHT0001835

Copies:  
Region #9  
Niagara Co. Health Dept.  
Erie/Niagara Co. Reg. Plan. Board  
Mr. Crandall - BPC  
Mr. Adamczyk - BIP  
Dr. Baker-EPA, Region II  
Dr. Spear-EPA,  
Edison, NJ

Facility ID No. : NY- 000 0060  
Effective Date (EDP) : August 1, 1981  
Expiration Date (ExDP) : August 1, 1986  
Modification Dates: September 2, 1983 and  
January 18, 1984  
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)  
DISCHARGE PERMIT

Special Conditions  
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Permittee Name: UNION CARBIDE CORPORATION, METALS DIVISION, Attn: Mr. F.T. Temple  
Plant Manager

Permittee Street: Simmons Ave. & 47th Street

Permittee City: Niagara Falls State: New York Zip Code: 14302

is authorized to discharge from the facility described below:

Facility Name: Union Carbide - Metals Division

Facility Location (C,T,V): Niagara Falls (C) County: Niagara .

Facility Mailing Address (Street): P.O. Box 66

Facility Mailing Address (City): Niagara Falls State: New York Zip Code: 14302

into receiving waters known as: Upper Niagara River, Class A  
Special Waters Index No. 01-158  
Latitude 43° 04' 18"  
Longitude 79° 01' 10"

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal as prescribed by Sections 17-0803 and 17-0804 of the Environmental Conservation Law and Parts 621, 752, and 755 of the Departments' rules and regulations.

By Authority of Steven J. Doleski, Regional Permit Administrator  
Designated Representative of Commissioner of the  
Department of Environmental Conservation

January 18, 1984  
Date

Steven J. Doleski  
Signature

LINDE ENVIRONMENTAL PERMITS

WATER            SPDES Permit # NY 000 0060  
                    Effective Date        8/1/81  
                    Expiration Date      8/1/86  
                    Modification Date    9/2/83

Monitor at Effluent Outfall 001

	<u>Daily Avg.</u> <u>lb./day</u>	<u>Daily Max.</u> <u>lb./day</u>	<u>Frequency</u>	<u>Type Sample</u>
Flow			Weekly	24 hr.
Suspended Solids	50	100	Weekly	24 hr. composite
Fluoride	35	70	Weekly	24 hr. composite
TKN (N)	42	47	Monthly	24 hr. composite
Lead Total	Monitor only Mg/l		Monthly	24 hr. composite
Temperature		90°F	Monthly	Grab
pH	6.5	8.5	Weekly	Grab

002 Sampling Point

Lead Total	Monitor only Mg/l		Monthly	24 hr. composite
Oil & Grease	14.6	22	Monthly	Grab

Discharges are net values

Incoming water - effluent = net value

U S DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE <b>APPLICATION AND PERMIT TO MOVE SOIL</b>				INSTRUCTIONS TO APPLICANT Complete Items 1 thru 21 Use reverse for continuation if needed		DO NOT USE REV. S-791					
FORWARD THIS APPLICATION TO U S Department of Agriculture Animal and Plant Health Inspection Service Plant Protection and Quarantine (PPQ) Federal Building Hyattsville, Maryland 20782				1 NAME AND ADDRESS OF APPLICANT (Include ZIP Code) R. J. Klotzbach Director of Technology Mineral Products - Metals Division Union Carbide Corporation, 4625 Royal Avenue P.O. Box 579, Niagara Falls, NY 14302							
2 TYPE OF SOIL		3 COUNTRY OF ORIGIN		4 DEPTH TAKEN FROM SURFACE		5 NUMBER OF SAMPLES		6 APPROX WEIGHT OF EACH		7 WILL HEAT STERILIZATION OF SOIL (before its release to you) INTERFERE WITH ITS INTENDED USE?  <input type="checkbox"/> NO (if NO, check preferred treatment) <input type="checkbox"/> Dry Heat <input type="checkbox"/> Steam Heat <input checked="" type="checkbox"/> YES (if YES, item 19 must be signed by the Head of the Laboratory receiving the soil)	
A Crushed rock samples		Various									
B		Foreign Countries									
C											
8 NUMBER OF SHIPPING CONTAINERS Various				9 METHOD OF PACKAGING SOIL							
10 METHOD OF SHIPMENT <input type="checkbox"/> Mail <input type="checkbox"/> Cargo <input type="checkbox"/> Baggage				11 SHIPPED BY <input checked="" type="checkbox"/> Air <input checked="" type="checkbox"/> Surface				12 PORT OF ARRIVAL New York		13 DATE OF ARRIVAL Various	
14 DESTINATION WHERE SOIL WILL BE USED (City & State) Union Carbide Corp., Metals Division Niagara Falls, NY Lab						15 ARE OTHER IMPORTATIONS CONTEMPLATED WITHIN THE NEXT TWO YEARS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
16 IS SOIL TO BE USED AS GROWING MEDIUM? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if NO, state intended use)    Rock samples for assay and test											
17 PRECAUTIONS TO BE USED TO PREVENT PLANT PEST DISSEMINATION  Our first treatment oven drying 260°F. will sterilize											
18 METHOD OF FINAL DISPOSITION (Autoclaving incineration, or other) Approved disposal sites											
19 SIGNATURE OF APPLICANT OR AGENT (Laboratory Head sign if you checked YES in item 7) <i>R. J. Klotzbach</i> /s/ Robert J. Klotzbach						20 TELEPHONE NUMBER (716) 278-3157			21 DATE 8/2/83		
TO BE COMPLETED BY STATE REGULATORY OFFICIAL											
COMMENTS											
SIGNATURE (Or verbal approval <input checked="" type="checkbox"/> <i>Walter T. Brown</i>						TITLE Asst. Director Div of Plant Industry NYDAM			DATE 8/12/83		
TO BE COMPLETED BY PLANT PROTECTION AND QUARANTINE PROGRAMS											
<b>FEDERAL PERMIT</b> Under authority of the Federal Plant Pest Act of May 23, 1957 permission is hereby granted to the applicant named above to move the soil described, subject to the following conditions (Items 1 21 above are conditions of this permit, except as indicated below)											
1 Valid for shipments of soil not heat treated at port of entry, only if Compliance Agreement (PPQ Form 519) has been completed and signed, and if this permit is countersigned by a field Plant Protection and Quarantine Officer  2. To be shipped in sturdy leak-proof containers. 3. To be released without treatment at the port of entry. 4. To be used only for rock assay and test and only in the laboratory of the permittee in Niagara Falls, New York. No use of soil for growing purposes permitted. 5. All unconsumed soil, containers, and effluent to be autoclaved or incinerated by the permittee at conclusion of project.											
PERMIT NO REVISED S-791				VALID THROUGH THROUGH AUGUST 31, 1988				NO LABELS ISSUED 20 PPQ FORMS 550			
SIGNATURE OF PPQ OFFICIAL - PERMIT UNIT <i>M. G. Anne Spires Jr.</i> W. H. Forster								DATE AUGUST 5, 1983			
SIGNATURE OF PPQ OFFICIAL - FIELD <i>W. H. Forster</i>								DATE August 12, 1983			



## INTERNAL CORRESPONDENCE

## METALS DIVISION

• P O BOX 579 4625 ROYAL AVE , NIAGARA FALLS, NEW YORK 14302

To (Name) ALL EXPLORATION OFFICES  
 Division (FOREIGN AND DOMESTIC)  
 Location

Date November 3, 1980  
 Originating Dept MINERALS TECHNOLOGY

Answering letter date

Copy to Messrs. T. F. Ahearn  
 B. T. Hone  
 O. J. Malacarne  
 D. L. Mathias  
 D. G. Millenbruch  
 D. R. Sutphen  
 Mrs. C. J. Bates

Subject Dept. of Agriculture Permit S-791  
 8/15/80 - 8/31/83 - Soil Samples

Our Department of Agriculture Permit to import foreign or domestically transfer soil samples has been renewed effective August 15, 1980, and expiring August 31, 1983. The permit number is S-791.

The Port of Arrival for all foreign samples is New York. All samples and containers should be marked on the label with the Permit Number and the expiration date. All shipments are to be sent to R. J. Klotzbach, Director, Union Carbide Corporation, Metals Division, Mineral Products Technology, P. O. Box 579, 4625 Royal Avenue, Niagara Falls, New York 14302. Telephone number 716-278-3423. All foreign samples sent through JFK should also include the notation, "ATTENTION: UCC CUSTOMS IMPORT DEPARTMENT." All samples must be in sturdy leak-proof containers.

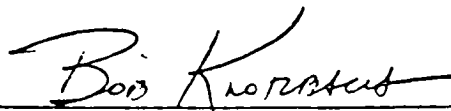
Our handling of the samples and our contacts with customs would be expedited if each shipper would notify us in advance by telephone or letter. The contact at Niagara Falls is Mrs. Clare Bates, 716-278-3423.

Helpful information would be:

1. Shipping point and sample origin
2. Total weight
3. Number of packages or drums
4. Date of shipment (approximate will suffice)

Mrs. Bates will be the sample person handling the disposition of domestic samples and will be our primary contact with UCC International Distribution for all foreign samples arriving at JFK airport. Please help us service your samples.

RJK:cjb

  
 R. J. Klotzbach

UCCNHT0001839

Distribution List - R. J. Klotzbach's Letter of November 3, 1980

FOREIGN LOCATIONS

Mr. B. W. Hawkins - Australia  
Mr. Peter D. Danchin - South Africa  
Mr. Alen Wolstencroft - Tanzania  
Mr. Nigel G. Cawthorn - England  
Dr. Peter Cotterill - Zimbabwe

DOMESTIC LOCATIONS

Mr. G. L. Schierman - Alamo, Nevada  
Mr. J. E. Straka - Albuquerque, New Mexico  
Mr. R. H. Von Holdt - Casper, Wyoming  
Mr. J. S. Hollingsworth - Grand Junction, Colorado  
Mr. F. L. Dedrickson - Hot Springs, Arkansas  
Dr. W. B. DeAtley - King City, California  
Mr. E. E. Nelson - Missoula, Montana  
Mr. A. Lopez - Reno, Nevada  
Mr. D. L. Beahm - Riverton, Wyoming  
Mr. R. L. Nylund - Uravan, Colorado

Canada

Mr. Miles H. Russell - Edmonton, Alberta  
Mr. J. J. Royall - Vancouver, British Columbia

UCC Technology - Radioactive Materials and License; X-ray Producing Equipment  
and Registration

Source Material and License

Licensee: Union Carbide Corp., Metals Div.  
4625 Royal Ave.  
Niagara Falls, NY 14302

Radioactive Materials License Number 210-0090, Reference No. 2, with 10 amendments.

Issued By: New York State Department of Labor, Division of Safety and Health

Source Materials Covered by License:

<u>Sealed Source</u>	<u>Purpose</u>	<u>Quantity</u>	<u>Present Location</u>
Cs 137	Float Indicator	50 mCi	Stack Furnace, Bldg. 169
Cs 137	" "	50 mCi	Storage, Bldg. 143
Cd 109	Port. Isotope Analyzer	3 mCi	Cabinet, Bldg. 166
Fe 55	" " "	20 mCi	" " "
Pu 238	" " "	30 mCi	" " "
Co 57	" " "	3 mCi	" " "

Other unlicensed source materials:

1. Various radium sources, which cropped up during H. J. O'Hear's tenure, stored in Lab. 357, Bldg. 94.
2. Thorium oxide.

Note:  $U_3O_8$  as ore, tailings, and concentrate assumedly is covered by a general license, and gets shipped back to source of origin. No present accounting of on-site  $U_3O_8$  exists.

Number of persons exposed to source materials: 0. All sources are in storage.

Equipment and Registration

Registrant: New York State Dept. of Labor, Division of Safety and Health  
Registration No. L-0090

UCC owned and operated X-ray equipment:

<u>Number</u>	<u>Description</u>	<u>No. of workers Exposed</u>
2	50 kv; 35 ma Philips Electronics Inc., Manual Powder X-ray Diffractometer	2

Note: Attached is a list of Ekem owned and operated X-ray equipment, which at this time remains registered to UCC.

D. R. Brosnahan  
5/16/83

UCCNHT0001842





## INTERNAL CORRESPONDENCE

## METALS DIVISION

137 47th STREET, P O BOX 66, NIAGARA FALLS, NEW YORK 14302

To (Name) Mr. R. G. Beverly  
 Division UCC-Metals Division  
 Location Grand Junction CO 81502

Date February 8, 1984

Originating Dept

Answering letter date

Copy to E. A. Casciani  
 W. E. Esch  
 R. L. Miller

Subject Permits & Licenses -  
 Niagara Falls Plant

Bob --

Enclosed herewith are copies of all known air, water and radiation permits for the combined Niagara Falls Metals and Linde Flux operations.

Please note.

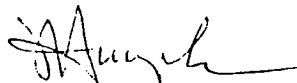
1. Agreement with City of Niagara Falls for treatment of wastewater is currently in force but due to a new discharge permit requiring extensive modifications to the tertiary treatment facility, contracts will be renegotiated, probably as early as April of this year.
2. I have included all known permits formerly held by the Linde Flux plant and currently in process of transfer to Metals under agreement reached re consolidation effective 1/1/84.
3. Some uncertainty exists as to the radiation permit for the "new" ITI x-ray inspection machine for Vanadium Aluminum product. We think ITI took out a permit when installation was made about three years ago and have maintained since. We will check and advise.
4. We have solid waste disposal permits although neither facility disposes of hazardous waste. Quarterly reports are filed against these permits to indicate no hazardous waste transported.
5. Our Hospital x-ray is antiquated and taken out of service. Permit is valid, however, but will not be renewed. IRD advised and hope to transfer. If not, it will be abandoned in place and source appropriately disposed of.
6. I could not find a validated permit for the Picker x-ray in the Vanadium Aluminum Department, but there is one and checks are made regularly as well as State inspection periodically.

UCCNHT0001843

February 8, 1984

7. Disposal of radioactive waste and ore was made in the Pine Avenue landfill previously owned by UCC-Metals and now owned by Cecos Int. This disposal licensed by AEC/NRC and currently under NYS DEC. We believe we do not have any responsibility in regard to this disposal, but I am sending what information I have anyway.
8. I made no attempt to sort out permits held by UCC Technology Dept. (R. J. Klotzbach), but I believe we transferred everything to Elkem Metals at the time of divestiture, 7/1/81, with the exception of the low level radiation within the yard area of the lease. RJK should be contacted on this.

Please advise if you need further information.

  
F. T. Temple

FTT ew

Att.

UCCNHT0001844



## INTERNAL CORRESPONDENCE

## METALS DIVISION

MAR 9 1984  
 137 47th STREET, P O BOX 66, NIAGARA FALLS, NEW YORK 14302

To (Name) Mr. R. G. Beverly  
 Division UCC-Metals Division  
 Location Grand Junction CO

Date March 6, 1984

Originating Dept

Answering letter date

Copy to C. L. Dudnick  
 J. F. Frost  
 R. J. Klotzbach

Subject Niagara Falls Permits and  
 Licenses

Further to my letter of February 8 and J.F. Frost's letter of February 21 regarding the permit lists for Niagara Falls, the following information is available regarding the points I made:

1. Items 3 & 6 - X-ray Inspection Facilities for Vanadium-Aluminum. The two permits are attached herewith.
2. I was able to locate the permit for the hospital x-ray, also attached.
3. A copy of our Permit 950-0139 for the low-level radiation from our prior ferrocolumbium operations is attached. However, the details of this should be discussed with R.J. Klotzbach.
4. We are in possession of a permit, No. 955-0139, for a small radiation source which has been stored in the basement of our stores department pending disposition. That permit is also attached.

I believe this covers all the permits and licenses for the Metals Plant facility. Again you should touch base with Mr. Klotzbach for any other tag ends that they still may have.

The State Department of Environmental Conservation has been contacted by Carol Dudnick regarding the Linde SPDES and the outcome of that transfer to Metals is at this time unknown.

Please advise if you have further questions.

F. D. Temple

FTT:ew

Att.

UCCNHT0001845

June 14, 1984

NOTE:

All license and permits referred to in the foregoing lists and memos applicable to the Niagara Metals/Flux Operations are on file in Niagara Falls, NY and in Grand Junction, CO. If the reviewer desires more details, please contact R. G. Beverly in Grand Junction, CO, 303-245-3700.

R. G. Beverly

UCCNHT0001846